WHAT IS CLAIMED IS:

- 1. An aluminum based material, comprising the elements of scandium (Sc), silicon (Si), magnesium (Mg), zirconium (Zr), copper (Cu), and aluminum (Al).
- 2. The aluminum based material in accordance with claim 1, wherein the scandium has a proportion ranged between 0.01% and 0.5%.

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- 3. The aluminum based material in accordance with claim 1, wherein the silicon has a proportion ranged between 0.01% and 0.5%.
- 4. The aluminum based material in accordance with claim 1, wherein the magnesium has a proportion ranged between 0.01% and 0.5%.
 - 5. The aluminum based material in accordance with claim 1, wherein the zirconium has a proportion ranged between 0.01% and 0.5%.
 - 6. The aluminum based material in accordance with claim 1, wherein the copper has a proportion ranged between 0.01% and 0.5%.
 - 7. The aluminum based material in accordance with claim 1, wherein the aluminum has a proportion ranged between 97.5% and 99.95%.
 - 8. The aluminum based material in accordance with claim 7, wherein the optimum proportion of the aluminum is greater than 98%.